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## Patent Abstracts of Japan

PUBLICATION NUMBER : 63112586  
PUBLICATION DATE : 17-05-88

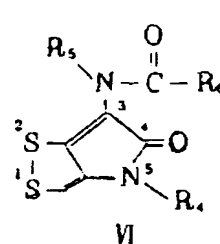
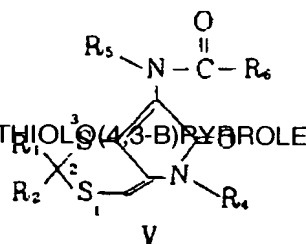
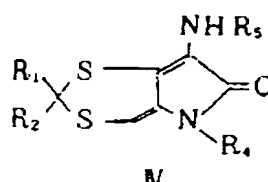
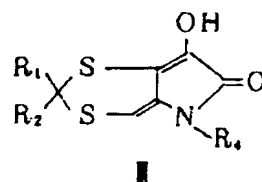
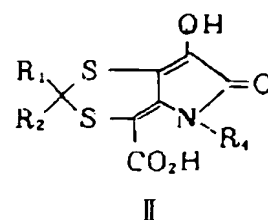
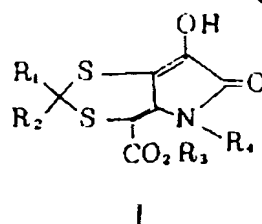
APPLICATION DATE : 29-10-86  
APPLICATION NUMBER : 61255942

APPLICANT : NIPPON KAYAKU CO LTD;

INVENTOR : YAMAGUCHI TORU;

INT.CL. : C07D495/04 // A61K 31/40  
(C07D495/04 , C07D339:00 ,  
C07D207:00 )

TITLE : PRODUCTION OF  
3-ACYLAMINO-4-OXO-4,5-DIHYDRO-1,2-DITHIOL  
DERIVATIVE



ABSTRACT : PURPOSE: To obtain a pyrrothin based antibiotic, holothin based antibiotic, etc., useful for an insecticide, by decarboxylating a specific pyrrole derivative and reacting the product with an amine, etc.

CONSTITUTION: A 4-hydroxy-5-oxo-7-alkoxycarbonyl-5,6-dihydro-1,3-dithiino[5,4-b]pyrrole derivative expressed by formula I [ $R_1$  and  $R_2$  represent lower alkyl or (substituted)phenyl;  $R_3$  represents lower alkyl;  $R_4$  represents H or lower alkyl] is hydrolyzed to form a derivative expressed by formula II. Then this derivative is decarboxylated to form a derivative expressed by formula III and reacted with an amine expressed by the formula  $R_5-NH_2$  ( $R_5$  represents H or lower alkyl) to afford a 4-amino or substituted amino-5-oxo-5,6-dihydro-1,3- dithiino[5,4-b]pyrrole derivative expressed by formula IV. This compound is reacted with a compound expressed by the formula  $R_6COHal$  ( $R_6$  represents  $R_1$  or  $R_2$ ), etc., to form a compound expressed by formula V, which is reacted with an oxidizing agent and mineral acid to give the aimed compound expressed by formula VI.

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